



# BURCHELL NURSERY

## A General Guide to Rootstocks

ROOTSTOCK	ANCHORAGE	SOIL PREFERENCE	CROWN ROT	CROWN GALL	OAK ROOT FUNGUS	BACTERIAL CANKER	ROOT-KNOT NEMATODE		ROOT LESION NEMATODE <i>Partylenchus Vulnus</i>	RING NEMATODE	VERTICILLIUM WILT	COMMENTS
							M. INCOGNITA	M. JAVINICA				
<b>LOVELL</b> (Peach)	Good	Well-drained, sandy loam best. Sensitive to wet soil conditions.	Susceptible	Variable, but generally susceptible.	Susceptible	Generally susceptible less than plum or apricot.	Susceptible	Susceptible	Susceptible	Susceptible	Susceptible	Most commonly used where nematodes are not a problem.
<b>NEMAGUARD</b> (Peach)	Good	Well-drained, sandy loam best. Sensitive to wet soil conditions.	Susceptible	Appears less susceptible than peach.	Susceptible	Generally susceptible. Appears more susceptible than Lovell.	Most are immune, some resistant	Resistant	Susceptible	Susceptible	Susceptible	Most common rootstock for peaches and almonds.
<b>GUARDIAN®</b> (BY520-9)	Deep-rooting	Medium clay loam soils.	Low resistance	Less susceptible to moderately tolerant.	Susceptible	Resistant	Resistant	Resistant	Moderate tolerance	Resistant	Unknown	A good choice of rootstock when planting back an old orchard site. Used mainly in the Southeast United States.
<b>FLORDAGUARD</b>	Deep-rooting	Sandy to clay loam soils.	Low resistance	Less susceptible to moderately tolerant	Susceptible	Susceptible	Resistant	Resistant	Susceptible	Susceptible	Unknown	Low-chill rootstock. Does not tolerate high pH soils.
<b>NEMARED</b>	Good	Well-drained, sandy loam best. Sensitive to wet soil conditions.	Susceptible	Appears less susceptible, same as Nemaguard.	Susceptible	More susceptible than Nemaguard and Lovell.	Possibly more resistant than Nemaguard		Susceptible similar to Nemaguard	Very susceptible	Unknown	Very similar to Nemaguard. More vigorous than Nemaguard.
<b>CORNERSTONE</b> (PP#21,248)	Vigorous, deep-rooting	One of the most tolerant of saline soils. Also tolerant to high pH soils.	Susceptible	Moderately resistant.	Unknown	Susceptible	Resistant	Resistant	Moderate tolerance	Susceptible	Unknown	Increases in fruit size.
<b>HANSEN 536</b> (Peach/Almond Hybrid)	Very Good	More tolerant of saline soils than other rootstocks. Needs deep well drained soil.	More susceptible than Nemaguard and Lovell.	Susceptible	Unknown	Appears as resistant as Nemaguard.	Immune	Immune	Unknown, presumed susceptible	Unknown	Susceptible, more than peach	Very vigorous, drought tolerant, may promote larger trees. Will not tolerate excess water.
<b>CONTROLLER 5*</b> (PP#15,228)	Medium-rooting	Well-drained, good soils.	Rooting	Unknown	Unknown	Unknown	Moderately susceptible	Moderately susceptible	Unknown	Moderately susceptible	Unknown	A dwarfing rootstock that will reduce the size of the scion cultivar to 50-60% of the size of trees on Nemaguard rootstock.
<b>CONTROLLER 9*</b> (PP#15,225)	Medium-rooting	Well-drained, good soils.	Unknown	Unknown	Unknown	Unknown	Moderately susceptible	Moderately susceptible	Unknown	Moderately susceptible	Unknown	A dwarfing rootstock that will reduce the size of the scion cultivar to 90% of the size of trees on Nemaguard rootstock.
<b>PLUM</b> (Myrobalan 29C Cuttings)	Roots tend to be shallow	Adapted to different soil types and moisture conditions.	Moderately resistant	Moderately resistant	Moderately resistant, but not as resistant as Marianna 26-24	Susceptible but less so than Marianna 26-24.	Immune	Immune	Susceptible	Susceptible	Moderately susceptible	Common rootstock for heavy soils that tend to be wet.
<b>PLUM</b> (Marianna 26-24 Cuttings)	Roots tend to be shallow	Adapted to different soil types and moisture conditions.	Moderately resistant	More resistant than Myrobalan seedlings.	Moderately resistant	Highly susceptible	Immune	Immune	Susceptible	Susceptible	Moderately susceptible	Common rootstock for heavy soils that tend to be wet.
<b>CITATION</b>	Good	Medium to heavier textured soils.	Moderately resistant	Very susceptible	Susceptible	Unknown	Somewhat resistant	Somewhat resistant	Unknown	Unknown	Susceptible	Somewhat dwarfing
<b>M40* PLUM</b>	Deep-rooting	Heavy, wet soils.	Low resistance	Resistant	Moderately resistant	Unknown	Susceptible	Susceptible	Susceptible	Susceptible	Unknown	Reduced sucker production. Not compatible with all almond varieties.
<b>MAZZARD</b> (Cherry)	Excellent, many roots, shallow, injured by deep cultivation and drought.	Sandy loam to loam	Moderately resistant	Moderately susceptible, more so than Mahaleb	Variable	Resistant variable but generally susceptible.	Immune	Immune	Susceptible	Unknown	Susceptible	Preferred rootstock in soils too heavy for Mahaleb.
<b>MAHALEB</b> (Cherry)	Excellent roots, deeper than Mazzard.	Sandy loam. Cannot tolerate poor drainage.	Susceptible	Moderately resistant	Susceptible	Resistant	Resistant	Susceptible, but more tolerant than peach	Moderately resistant	Unknown	Susceptible	Trees may be slightly smaller. Come into bearing sooner and have heavier fruit set than Mazzard.
<b>COLT</b> (Cherry)	Good	Clay loam	Moderately resistant	Very susceptible	Susceptible	Resistant	Unknown	Unknown	Unknown	Unknown	Unknown	Very vigorous
<b>Northern California BLACK WALNUT</b> (Seedlings)	Deep rooting	Well drained. Sensitive to calcareous and saline soils.	Susceptible	Variable, least susceptible of walnut rootstocks.	Susceptible	Not a problem	Somewhat resistant	Somewhat resistant	Highly susceptible	Susceptible	Resistant	Common walnut rootstock in California.
<b>PARADOX</b> (Hybrid Walnut)	Deep rooting, vigorous	Less tolerant of saline and calcareous soils. Tolerates moisture better than Black.	Susceptible, but more resistant than Black (depending on fungus species).	Very susceptible, more susceptible than Black.	Resistant variable	Not a problem	Unknown	Unknown	Variable, average more resistant than Black	Susceptible	Resistant	Tend to be more vigorous than Black. Common rootstock for heavy soils that tend to be wet.
<b>VLACH</b>	Deep-rooting	Good in poor soil where more vigor is needed.	Low resistance	Less susceptible to moderately tolerant.	Unknown	Moderately resistant	Susceptible, and tree is intolerant of nematodepresence.			Unknown	Unknown	Very vigorous, deep-rooting.
<b>VX211*</b> (PP#21,179)	Deep-rooting	Good in poor soil where more vigor is needed.	Moderate resistance	Moderately susceptible	Unknown	Low resistance	Some tolerance to nematode presence.			Unknown	Unknown	Very vigorous.
<b>RX1*</b> (PP#20,649)	Shallower-rooted	Survives well in heavy soils that tend to stay wet.	Moderate resistance	Moderately susceptible	Unknown	Low resistance	Susceptible, and tree is intolerant of nematode presence.			Unknown	Unknown	Good vigor
<b>WIP3*</b> (clonal)	Good	Needs good, well-drained soil.	Low resistance	Moderately susceptible	Unknown	Low resistance	Susceptible, and tree is intolerant of nematode presence.			Unknown	Unknown	Tolerant of Black Line.

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